

New Hampshire SSO and Bypass Reports

MUNICIPALITY	REPORT DATE	DATE	LOCATION	VOLUME	Comments	RECEIVING STREAM		REPAIRED BY	COMMENTS
Portsmouth-Peirce	17-Nov-00	13-Nov-00	Disinfection system failure at WWTF	1,700,000	Ran out of hypo in temporary storage tank, no backup tank, therefore, undisinfected wastewater effluent was discharged to the river.	Piscataqua River		13-Nov-00	Disinfection system leak was discovered on 10/26/00. Installed temporary hypochlorite storage tank and piping on 10/31/00. Clean Harbors cleaned hypo tank and found crack. New tank ordered. Ran out of hypo in temporary system over the weekend. A second hypo storage tank was put online until a permanent storage facility was designed and installed. Shellfish bed closure for 9 days.
Portsmouth-Peirce		22-Mar-01	Elderly housing project at South Mill Pond		Wanted to open the gate at Marcy St. Station to relieve system		Backed up into housing project		Opened gate at Marcy St. station. Shellfish beds were closed to harvesting for 14 days.
Portsmouth-Peirce	01-Oct-01	25-Sep-01	WWTF Filter Building	2,000	Broken valve on 24" force main from the Mechanic St. PS	Piscataqua River		25-Sep-01	Mechanic St, Deer St and Lafayette St PSs were shut off to reduce flows, inline storage was maximized, bypass pump was put online to pump flows back into inline MH. Valve repair was completed and all PSs were put back on line.
Portsmouth-Peirce	22-Oct-01	17-Oct-01	Deer St. PS	400,000 to 500,000	PS is a 2 pumps station. One pump was pulled for repair in 3/01, the second pump failed. No back up pump was in place. When temporary pumps were installed, the valve stem of the 16" valve at the bypass pump connection was discovered to be broken...requiring valve replacement as well. The valve was located, purchased and installed 24 hours later.	Piscataqua River		18-Oct-01	Temporary pumps were installed and the broken 16" valve at the bypass pump connection was replaced. Deer St pumps will be repaired (in 7-10 days). Temporary pumping system will be removed after both pumps are repaired, reinstalled and functional. Shellfish bed closure. Lost 7 days for harvest.
Portsmouth-Peirce	15-Mar-02	12-Mar-02	Leslie Drive Pump Station MH	95,200	MH adjacent to PS overflow due to compressor malfunction. Backup pressure transducer wasn't tied to SCADA sys. No alarm sounded.	North Mill Pond		12-Mar-02	Backup compressor was started. Pump station telemetry was corrected to have backup level signal tied to backup high level alarm (completed 3/14/02).
Portsmouth-Peirce	19-Apr-02	17-Apr-02	Woodlands I Pumping Station MH and PS doorway	4,800	MH adjacent to PS overflow due to air bubbler level control system malfunctioned. Did not provide an accurate level measurement, sis not start the pumps, and did not provide a high level alarm.	Discharged to CB that drains to Berry Brook		19-Apr-02	Pumps were started manually. Wetwell was drained and bubbler system was inspected. Backup level signal was tied to a backup high level alarm. All PSs were wired similarly to alarms.

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Portsmouth-Peirce	13-May-02	08-May-02	Liberty Mutual access drive		Grease blockage between MH 525 and 524		to ground adjacent to wetland	13-May-02	Grease blockage removal took place on 5/9, 5/10 and 5/13. Suspect that the grease is from High Liner Food's a fish processing plant. Also check Liberty Mutual and Regional Hospital.
Portsmouth-Peirce	17-Jun-02	10-Jun-02	Grit cyclone at WWTF sludge dewatering building	120,000	grit cyclone clogged and a slurry of grit and WW was overflowing	Piscataqua River via storm drain		10-Jun-02	Septage truck was used to pump out CB. Area was hosed down and limed. Cleared the clog. Grit system to be relocated during upgrade.
Portsmouth-Peirce	26-Aug-02	14-Aug-02	Lafayette Road PS force main	7,300	Contractor struck and broke the pipe.		Pumped WW from trench to sanitary sewer MH until the line was repaired.	??	Repaired line.
Portsmouth-Peirce	24-Sep-02	24-Sep-02	Rye Line PS force main	1,839	Water line crew struck and broke the pipe while working to repair a leaking water service line.	Discharged to CB that drains to Berry Brook		24-Sep-02	Repaired line and limed the affected area.
Portsmouth-Peirce	08-Nov-02	04-Nov-02	Leak in grit cyclone equipment	10,000	Leak flowed out of Sludge Dewatering building to CB to Piscataqua River.	Discharged to CB that drains to Piscataqua River		04-Nov-02	Used septage truck to vacuum CB and area. Limed area. Grit system to be relocated as part of the SFR funded upgrades.
Portsmouth-Peirce	21-Jan-03	28-Dec-02	CSO 10A DWO	289,000	Caused by a pump failure at the Mechanic Street PS.	South Mill Pond			Staff will be trained re: notification requirements and collection sys and how to access CSO sensors to monitor collection sys levels if PS fails. Will look at options for improving PS telemetry and alarm sys of CSOs. Closed shellfish beds for 24 days lost 3 days of harvest.
Portsmouth-Peirce	21-Jan-03	18-Jan-03	MH adjacent to the Woodlands I Pumping Station	Not estimated	Pumps stopped. Wetwell high level alarm failed. Backup pumps didn't start and no alarms sounded.		Discharge did not quite reached the to CB that drains to Berry Brook.	18-Jan-03	Manually started pumps. To investigate options for PS controls improvements. Staff will be trained re: notification procedures and collection system hydraulics.
Portsmouth-Peirce	05-Mar-03	28-Feb-02	MH East PS adjacent to sludge dewatering building at Pierce Island WWTF.	2,700	Failure to maintain accurate forcemain piping configuration dwgs of the filtrate PS, the New Castle PS and the MH East PS.	Piscataqua River		28-Feb-03	City used septage truck to vacuum out the CB and area was hosed down and limed. PS check valve was replaced.
Portsmouth-Peirce	28-Mar-03	25-Mar-03	Spinnaker Way MH	1,000	Blockage in a section of line that services 4-unit condo. The wastewater was clear indicating excess infiltration in this section.	Unnamed pond off Market St Extension		25-Mar-03	City cleared blockage and limed area.
Portsmouth-Peirce	06-Aug-03	01-Aug-03	Scum building at WWTF	9,000	Material bridged the discharge shoot of the grit classifier and a slurry of grit and wastewater overflowed. Most went to floor drains and to basement of scum bldg. 50 gallons went under the door.		Approx. 50 gallons discharged to the grassy area between the scum bldg and the and the gravity thickener	01-Aug-03	Blockage cleared. WWTF upgrade moved the grit system and added an alarm system to prevent this from happening again.

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Portsmouth-Peirce	15-Aug-03	13-Aug-03	MH at Woodlands I PS	11,000	Problems with the automatic transfer switch and emergency power generator caused a PS malfunction. Loss of signal did not alarm. SCADA system review planned.	Berry Brook			SCADA system review, backup generator inspection and transfer switch check. To inspect all gas powered emergency generators. Replaced bubbler sys w/ ultrasonic sys and backup high level float switch was installed. Work of radio telemetry system.
Portsmouth-Peirce	10-Oct-03	23-Sep-03	WWTF distribution box	Unknown	Hydraulic overload due to extremely hard downpour (1.5" rain in one hour) with one primary clarifier off line.		ground		If significant rain is predicted, both clarifiers will be put on line. New SOP. Cleaned area.
Portsmouth-Peirce	03-Mar-04	25-Feb-04	54/58 Ceres Street	Unknown	Sewer line grease blockage.	Piscataqua River		25-Feb-04	Jettied line. Homeowner was told to eliminate the bypass discharge pipethat was installed 30 years ago to eliminate the periodic backups into the bldg. City will monitor and clean the Ceres Street interceptor on a routine basis. City will look into degreasing agents and will work with resautrant owners and enforce grease trap req'ts.
Portsmouth-Peirce	06-Apr-04	02-Apr-04	MHs along the Maplewood Avenue Interceptor (onThornton St., Ruth St., and Vaughan St). The Maplewood Ave Int is a combined sewer.	Unknown	Heavy rains (4.2") caused surcharging.	Flows from the MHs went into North Mill Pond and then into the Piscataqua River.			Picked up paper and debris after rains stopped. Working on a CSO LTCP that targets separating combined sewers and PS upgrades to increase system capacity.
Portsmouth-Peirce	06-Apr-04	02-Apr-04	Overflow at the Rye Line Pumping Station	36,000	Failure of the ultrasonic level system. High wetwells due to the rain submerged the ultrasonic analyzer. Pumps shut off when this happened. No alarms to indicate pump failure. Operators didn't discover the problem for 1.5 hours.	Wetwell overflowed, under door to surrounding wetland to Berry Brook			Pumps were put into manual mode and the discharge stopped. WW operators are reviewing the ultrasonic system programming to see if the default can be switched to a high level which would not shut the pumps off if the ultrasonic transducer is submerged again.
Portsmouth-Peirce	19-Nov-04	19-Nov-04	Oxford Avenue-sewage seeping out of the ground	20	Sewage leaked from an unused sewer service connection to a new low pressure force main. The curb stop was not fully closed, and, when the main was pressurized, sewage began to leak out.		To ground	19-Nov-04	Crew completely closed the curb stop. Vacuum truck removed damp soil and then crew lined the area.
Portsmouth-Peirce	18-Feb-05	14-Feb-05	Borthwick Ave Interceptor between SMH 529 and SMH 528 in a cross country section of sewer	Unknown	Blockage due to section of collapsed pipe.	Wetland around sewer manhole.			Line crews spot repaired the collapsed section of pipe. Difficult access precluded clean-up.